

Notice of Allowability

Application No.

09/532,977

Applicant(s)

FAIRMAN, RUBEN E.

Examiner

Eduardo Garcia-Otero

Art Unit

2123

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/11/04.
2. ☒ The allowed claim(s) is/are 1 and 3-20.
3. ☒ The drawings filed on 3/31/2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

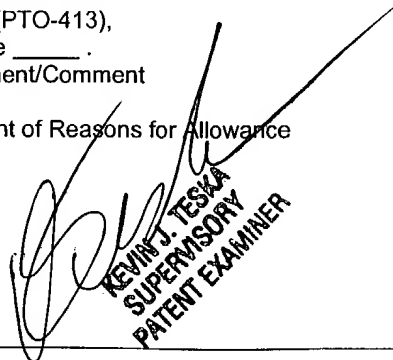
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |


KEVIN J. TESLA
SUPERVISORY
PATENT EXAMINER

Art Unit: 2123

ALLOWANCE

Introduction

1. Title is: METHODS AND SYSTEMS FOR GENERATING PROFILE CURVES OF SOLID MODELS.
2. First named inventor is: FAIRMAN.
3. Claims 1, and 3-20 are pending.
4. This action is in response to Applicant's Request for Continued Examination received 5/11/04, and power of attorney received 5/28/04.

Index of Prior Art

5. **Solid Edge** refers to Solid Edge User's Guide Version 7, MU28900-ENG, Unigraphics Solutions TM, 1999, pages 2, and 30-51.
6. **Graham** refers to INSIDE Pro/ENGINEER Solutions, Gary Graham et al., Onworld Press, 1999, pages 76-80.
7. **Beaton** refers to US Patent 6,039,131.

Applicant's Amendments

8. Applicant's amendments to specification and claims are accepted without objection. Note that drawings FIG 8 and FIG 9 were accepted in the last office action.

Claim Interpretation

9. In claim 1 (currently amended) limitation (a), the term "the associative two-dimensional section" is interpreted as having antecedent basis in the preamble term "a two-dimensional representation".
10. Also in claim 1 (currently amended) limitation (f), the term "setting the first revolved edge equal to the second revolved edge" is interpreted as "defining the second round edge as a new first revolved edge", in order to iteratively proceed in a loopwise fashion about the surface of the three-dimensional solid.

REASONS FOR ALLOWANCE

11. The excellent new drawings (FIG 8 and 9) clearly illustrate the differences between the prior art and the claims at issue. See *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966).


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12. Specifically, FIG 8 illustrates the prior art "known profile curve generators", and is properly labeled "prior art". Said prior art has been discussed in the original specification page 1 line 17 to page 2 line 5. Note that the generated curve depends upon the location of the intersecting plane, and changes as the orientation of the intersecting plane is rotated.
13. In contrast to the prior art, claim 1 (and the other independent claims) generate a profile curve using a non-obvious procedure that yields very different results, and the results are consistent, and do not change as a function of the orientation of the cutting plane is rotated. FIG 9 displays the results of claim 1.
14. All dependent claims are allowable because they depend from allowable independent claims while adding further limitations.
15. All prior objections and rejections are withdrawn.
16. Claims 1, and 3-20 are allowed.

Communication

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eduardo Garcia-Otero whose telephone number is 703-305-0857. The examiner can normally be reached on Tuesday through Friday from 9:00 AM to 8:00 PM. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Kevin Teska, can be reached at (703) 305-9704. The fax phone number for this group is 703-872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist, whose telephone number is (703) 305-3900.

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